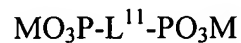


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended): A method for detaching a carrier for cell culture from a cultured cell formed on a surface of said carrier for cell culture, which comprises the step of bringing the carrier for cell culture into contact with a compound represented by the following formula (I) or a polyphosphoric acid or a salt thereof:



wherein L^{11} represents a substituted or unsubstituted divalent hydrocarbon group; and M represents hydrogen atom or a cation,

wherein the carrier for cell culture comprises a calcium alginate gel layer.

2. (Currently amended): A method for culturing a cell by using a carrier for cell culture comprising a calcium alginate gel layer, which comprises the steps of:

(1) bringing a cell culture containing a cultured cell adhered on a surface of ~~said~~the carrier for cell culture into contact with a compound represented by the formula (I) according to claim 1, or a polyphosphoric acid or a salt thereof, and

(2) detaching the cultured cell from the cell culture and transplanting said cell on a surface of other cultured cell.

3. (Currently amended): A method for transferring a cell, which comprises the steps of:

(1) culturing a cultured cell formed on a carrier for cell culture comprising a calcium alginate gel layer, while said cultured cell is allowed to be in contact with a surface of other carrier for cell culture with weighting; and

(2) bringing a cell culture obtained in the aforementioned step (1) into contact with a compound represented by the formula (I) according to claim 1, or a polyphosphoric acid or a salt thereof to detach the carrier for cell cultures.

4. (Currently amended): A method for laminating cell layers, which comprises the steps of:

(1) culturing a cultured cell formed on a carrier for cell culture comprising a calcium alginate gel layer, while said cultured cell is allowed to be in contact with other cultured cell with weighting; and

(2) bringing cell culture obtained in the aforementioned step (1) into contact with a compound represented by the formula (I) mentioned in claim 1, or a polyphosphoric acid or a salt thereof to detach the carrier for cell culture.

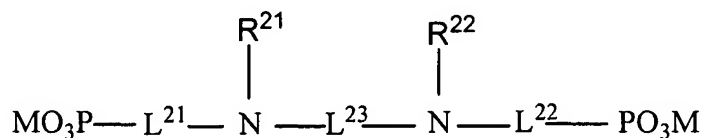
5. (Canceled).

6. (Original): The method according to claim 1, wherein the carrier for cell culture comprises laminated calcium alginate gel layer and cell adhesion gel layer.

7. (Canceled)

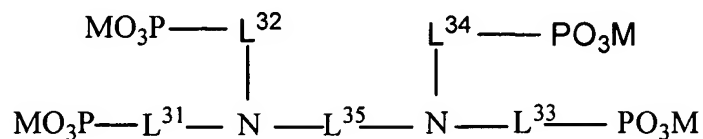
8. (Original): The method according to claim 1, wherein the divalent hydrocarbon group is a substituted or unsubstituted methylene group.

9. (Previously presented): The method according to claim 1, wherein the compound represented by the formula (I) is a compound represented by the following formula (II):



wherein L^{21} , L^{22} , and L^{23} independently represent a divalent hydrocarbon group; R^{21} and R^{22} independently represent a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aryl group; and M represents hydrogen atom or a cation.

10. (Original): The method according to claim 1, wherein the compound represented by the formula (I) is a compound represented by the following formula (III):



wherein L^{31} , L^{32} , L^{33} , L^{34} , and L^{35} represent a divalent hydrocarbon group; and M represents hydrogen atom or a cation.

11-13 (Canceled).

14. (Previously presented): The method according to claim 1, wherein the carrier for cell culture is brought into contact with the compound represented by formula (I) for a period of from 5 minutes to 2 hours to effect a removal treatment.

15. (Previously presented): The method according to claim 1, wherein the compound of formula (I) is 1-hydroxyethane-1,1-diphosphoric acid.